

WHAT IS CLAIMED IS:

1. A heat-sealable multilayer white opaque plastic film, comprising:
 - i) a cavitated core layer comprising polypropylene and having a first and a second surface;
 - ii) a top tie layer comprising polypropylene and a whitening agent, said top tie layer positioned adjacent to said first surface of the core layer;
 - iii) a top skin layer comprising polypropylene or a polyolefin terpolymer, an antiblock agent, said top skin layer positioned adjacent to said top tie layer;
 - iv) a bottom tie layer comprising polypropylene, said bottom tie layer positioned adjacent to said second surface of the core layer; and
 - v) a bottom skin layer comprising a polyolefin terpolymer, and one or more antiblock agents or antiblock slip agents, said bottom skin positioned adjacent to said bottom tie layer.
2. The film according to claim 1, wherein:
 - i) the top skin layer comprises polypropylene and SiO_2 ,
 - ii) the cavitating agent of the core layer comprises polybutylene terephthalate,
 - iii) the polyolefin terpolymer of the bottom skin layer comprises an ethylene- propylene- butylene terpolymer; and
 - iv) the bottom skin layer further comprises SiO_2 , a silicone oil, and a crosslinked silicone.
3. The film according to claim 2, wherein:
 - i) the top skin layer comprises from about 0.1% to about 0.5% SiO_2 , and from about 0.1% to about 0.5% of a second antiblock agent; and
 - ii) the top tie layer comprises up to 10% TiO_2 .

4. The film according to claim 3, wherein:
 - i) the top polypropylene skin layer comprises from about 0.15% to about 0.3% SiO₂ in the form of coated silica and from about 0.15% to about 0.25% methyl acrylate antiblock agent,
 - ii) the core layer comprises from about 7% to about 9% polybutylene terephthalate, from about 500ppm to about 700ppm phosphite antioxidant, and from about 200ppm to about 400ppm fluoropolymer anti-condensing agent,
 - iii) the bottom skin layer comprises an ethylene-propylene-butylene terpolymer and further comprises from about 0.6% to about 2.4% silicone oil antiblock, and from about 0.15% to about 0.3% crosslinked silicone antiblock slip agent.
5. The film according to claim 4, wherein the total film thickness is about 1mil and
 - i) the top skin layer comprises about 2.5% of the total film thickness,
 - ii) the top tie layer comprises about 15% of the total film thickness,
 - iii) the core layer comprises about 63% of the total film thickness,
 - iv) the bottom tie layer comprises about 15% of the total film thickness, and
 - v) the bottom skin layer comprises about 4% of the total film thickness.
6. The film according to claim 1, wherein:
 - i) the top skin layer comprises an ethylene-propylene-butylene terpolymer,
 - ii) the cavitating agent of the core layer comprises polybutylene terephthalate, the antioxidant comprises a phosphite, and the anti-condensing agent comprises a fluoropolymer,
 - iii) the polyolefin terpolymer of the bottom skin layer comprises an ethylene-propylene-butylene terpolymer, and

- v) the bottom skin layer further comprises an antiblock agent and an antiblock slip agent, wherein the antiblock agent comprises silicone oil, and the antiblock slip agent comprises a crosslinked silicone.

7. The film according to claim 6, wherein:

- i) the top skin layer comprises ethylene-propylene-butylene-terpolymer and further comprises from about 0.15% to about 0.3% SiO₂ in the form of coated silica, and from about 0.15% to about 0.25% methyl acrylate antiblock agent,
- ii) the core layer comprises from about 7% to about 9% polybutylene terephthalate, from about 500ppm to about 700ppm phosphite antioxidant, and from about 200ppm to about 400ppm fluoropolymer anti-condensing agent; and
- iii) the bottom skin layer comprises ethylene-propylene-butylene terpolymer and further comprises from about 0.6% to about 2.4% silicone oil antiblock, and from about 0.15% to about 0.3% crosslinked silicone antiblock slip agent.

8. The film according to claim 7, wherein the total film thickness is about 1mil and

- i) the top skin layer comprises about 2.5% of the total film thickness,
- ii) the top tie layer comprises about 15% of the total film thickness,
- iii) the core layer comprises about 63% of the total film thickness,
- iv) the bottom tie layer comprises about 15% of the total film thickness, and
- v) the bottom skin layer comprises about 4% of the total film thickness.



9.

A method of packaging a frozen novelty, comprising:

- i) providing a frozen ice cream preparation,
- ii) enclosing the ice cream preparation in a heat-sealable white opaque multilayer plastic film, and
- iii) sealing the film to enclose the frozen ice cream preparation.

10. The method of claim 9 wherein the heat-sealable white opaque multilayer plastic film comprises:

- i) a cavitated core layer comprising polypropylene and having a first and a second surface;
- ii) a top tie layer comprising polypropylene and a whitening agent, said top tie layer positioned adjacent to said first surface of the core layer;
- iii) a top skin layer comprising polypropylene or a polyolefin terpolymer, an antiblock agent, said top skin layer positioned adjacent to said top tie layer;
- iv) a bottom tie layer comprising polypropylene, said bottom tie layer positioned adjacent to said second surface of the core layer; and
- v) a bottom skin layer comprising a polyolefin terpolymer, and one or more antiblock agents or antiblock slip agents, said bottom skin positioned adjacent to said bottom tie layer.

APP
A1

App
B1